



# **Health Summary**

---

## **Technical Manual**

**Version 2.7**

November 1995  
Revised February 2002

Office of Information  
Department of Veterans Affairs



## Preface

---

The Health Summary package integrates clinical data from DHCP ancillary packages into patient health summaries which can be viewed online or printed as reports. Version 2.7 includes several new components and features, including Patient Care Encounter (PCE) components.

This manual is intended to be used as a technical reference guide for IRM Service, ADPACs, and Clinical Coordinators.

NOTE: This manual has been revised to describe changes that have been made, through patches, to Health Summary V. 2.7 since its release in 1994.

## Revision History

Revision Date	Page or Chapter	Description
January 2002		Revisions for changes made by patches to version 2.7 since its release in 1994, and specifically for patches 29, 45, 47, and 49
February 2002	Pgs 22-24	New menu of options enabling managers to control HS types on the reports tab in CPRS
March 2002	Page	Resolved E3R list updated

# Table Of Contents

---

<b>Revision History .....</b>	<b>iv</b>
<b>INTRODUCTION TO HEALTH SUMMARY .....</b>	<b>1</b>
Definition of a Health Summary.....	1
Packages Providing Data.....	1
Components and Types .....	1
Printing Health Summaries .....	2
PDX Transmission of Health Summaries .....	2
New Features in Health Summary .....	3
Patch GMTS*2.7*47.....	5
Patch GMTS*2.7*49.....	5
<b>HEALTH SUMMARY IMPLEMENTATION &amp; MAINTENANCE .....</b>	<b>11</b>
Set Up Site Parameters .....	13
Ad Hoc Health Summaries .....	15
CPRS Interface.....	15
Relationship to Integrated Billing's Encounter Form Utilities .....	15
Nightly Batch Processing .....	16
Health Summary Components Headers and Abbreviations .....	16
Customized Health Summary Types.....	16
Customizing the Ad Hoc Health Summary Type .....	17
<b>ROUTINE DESCRIPTIONS .....</b>	<b>19</b>
<b>FILES AND GLOBALS LIST .....</b>	<b>21</b>
<b>EXPORTED MENUS, OPTIONS, AND FUNCTION.....</b>	<b>23</b>
<b>CROSS-REFERENCES.....</b>	<b>27</b>

## Table of Contents

<b>PURGING AND ARCHIVING.....</b>	<b>29</b>
<b>CALLABLE ROUTINES.....</b>	<b>31</b>
<b>EXTERNAL RELATIONS .....</b>	<b>35</b>
Database Integration Agreements .....	35
<b>INTERNAL RELATIONS.....</b>	<b>36</b>
<b>GENERATING ONLINE DOCUMENTATION .....</b>	<b>37</b>
Routines .....	42
Globals.....	43
XINDEX.....	43
?, ??, and ??? Online Help.....	45
<b>GLOSSARY .....</b>	<b>47</b>
<b>APPENDIX A—DEFINING NEW COMPONENTS .....</b>	<b>49</b>
<b>APPENDIX B <sup>3</sup>/<sub>4</sub> HEALTH SUMMARY SECURITY.....</b>	<b>60</b>
<b>INDEX .....</b>	<b>64</b>

# Introduction to Health Summary

---

## Definition of a Health Summary

A health summary is a user-customized, clinical summary report consisting of patient information *components*. Each component presents the most currently available summary data from one of the ancillary packages listed below, for a given patient, with optional limits by time, number of occurrences, and selection items. These summaries can be viewed online or printed.

## Packages Providing Data

Automated Med Info	OE/RR (Order Entry/Results Reporting)
Exchange (AMIE)	Outpatient Pharmacy
Allergy Tracking System	Patient Care Encounter (PCE)
Clinical Reminders	Problem List
Consults	Progress Notes
Dietetics	Radiology
Discharge Summary	Registration
Inpatient Medications	Scheduling
Lab	Social Work
Medicine	Surgery
Mental Health	VISTA Imaging
Nursing (Vital Signs)	

## Components and Types

Components and their behavior are specified by records in the Health Summary Component file (142.1). When a “permanent” Health Summary is created, its *type*, as defined by the owner/creator, is saved in the Health Summary Type file (142).

### Definitions

<i>Component</i>	Summarized patient data extracted from various DHCP software packages.
<i>Type</i>	A structure or template containing defined components and unique characteristics.

## **Printing Health Summaries**

Permanent or pre-defined health summaries may be run or printed for a single patient or all patients at a given hospital location (Patient Health Summary and Hospital Location Health Summary options). If a *clinic or operating room location* is selected (instead of a ward) in the Hospital Location Health Summary option, the user will be prompted to enter a beginning and ending visit or surgery date. Only those patients with visits or surgeries scheduled for the specified date will have health summaries generated.

## **PDX Transmission of Health Summaries**

Health Summaries (except components with selection items or unique local components) can be transmitted by PDX—Patient Data Exchange—which transfers patient data between VA facilities using the MailMan electronic mail utility. See PDX V. 1.5 documentation for more information.



## New Features in Health Summary

Some of the more recent patches are described below. For complete descriptions of all of the changes in Health Summary since the release of version 2.7 in 1994, please refer to the patches (described briefly on following pages and in more detail in the Patch module on Forum).

## New Components

CM	Reminder Maintenance
CMB	Reminder Brief
CR	Reminders Due
CRS	Reminders Summary
GAF	Global Assess Funct
MAGI	MAG Imaging
NSR	NON OR Procedures
SCD	Spinal Cord Dysfunct
SII	Sel Image Impression
SNSR	Selected NON OR Proc
SPN	Selected Prog Notes
SR	Surgery Rpt (OR/NON)
SVSO	Vital Select Outpat.
VSD	Detailed Vitals
VSO	Vital Signs Outpat.

## Renamed Components

New Name	Old Name
II Imaging Impression	RI Radiology Impression
SII Imaging Impression Selected	SRI Radiology Impression Selected
IP Imaging Profile	RP Radiology Profile
IS Imaging Status	RS Radiology Status

## Patches that components were released with:

CRS	Reminders Summary	GMTS*2.7*23
CMB	Reminder Brief	GMTS*2.7*34
CR	Reminders Due	GMTS*2.7*34
GAF	Global Assess Funct	GMTS*2.7*35
MAGI	MAG Imaging	GMTS*2.7*26
NSR	NON OR Procedures	GMTS*2..7*11
SCD	Spinal Cord Dysfunct	GMTS*2.7*13
SII	Sel Image Impression	GMTS*2.7*26
SPN	Selected Prog Notes	GMTS*2.7*12
SRO	Surgery Only	GMTS*2..7*11
SVSO	Vital Select Outpat.	GMTS*2.7*8
VSD	Detailed Vitals	GMTS*2.7*35
VSO	Vital Signs Outpat	GMTS*2.7*8.
SNSR	Selected NON OR Proc	GMTS*2..7*11
SR	Surgery Rpt (OR/NON)	GMTS*2..7*11
CM	Reminder Maintenance	GMTS*2.7*34

## **Patches GMTS\*2.7\*29 and GMTS\*2.7\*48**

Health Summary patches 29 and 48 export components for using Remote Data Views. With all the proper patches installed, you may view remote patient data through CPRS. Before you can do this, you must have Master Patient Index/Patient Demographics (MPI/PD) and several other patches installed. Once these are in place and the proper parameters have been set, you can access remote data from other VA facilities.

Currently, remote data views are limited to predefined, nationally exported Health Summary Types. Remote data may not be viewed by either the Ad Hoc Health Summary type or locally/user developed Health Summary types.

You can view remote clinical data using any Health Summary Type that has an identically named Health Summary Type installed at both the local and remote sites. However, for non-nationally exported health summary reports, the content of the report is subject to the report structure and configuration defined at the remote site.

Patch 29 (GMTS\*2.7\*29) adds the following Remote Data Views types:

REMOTE DEMO/VISITS/PCE (3M)  
REMOTE MEDS/LABS/ORDERS (3M)  
REMOTE TEXT REPORTS (3M)  
REMOTE CLINICAL DATA (3M)  
REMOTE CLINICAL DATA (1Y)  
REMOTE DEMO/VISITS/PCE (1Y)  
REMOTE MEDS/LABS/ORDERS (1Y)  
REMOTE TEXT REPORTS (1Y)  
REMOTE CLINICAL DATA (4Y)  
REMOTE LABS LONG VIEW (12Y)  
REMOTE LABS ALL (1Y)  
REMOTE LABS ALL (3M)  
REMOTE DIS SUM/SURG/PROD (12Y)  
REMOTE OUTPATIENT MEDS (6M)  
REMOTE ONCOLOGY VIEW

See Chapter 3, section 2 in the Health Summary User Manual for more information on using Remote Data Views.

## **GMTS\*2.7\*45**

The purpose of this patch is to allow the Health Summary components 'Progress Notes' and 'Selected Progress Notes' to display the new interdisciplinary progress notes and all of the entries associated with the interdisciplinary note. The interdisciplinary note and all of the associated entries will be marked in the progress note components as follows:

<b>Note Type</b>	<b>Marked as</b>
Primary Note:	Interdisciplinary Note
Addendum to Primary	Interdisciplinary Note (addendum)
Child Note	Interdisciplinary Note Entry
Addendum to Child	Interdisciplinary Note Entry (addendum)

## **Patch GMTS\*2.7\*47**

A menu of options has been added, CPRS Reports Tab “Health Summary Types List,” that allows users to control the Health Summary Types and the order that the Health Summary Types are listed in the Health Summary Types box on the Reports Tab of CPRS. This menu option has four menu items to edit and display the users’ preferences.

## **Patch GMTS\*2.7\*49**

A menu of options has been added, “CPRS Health Summary Display/Edit Site Defaults,” that allows IRM/Managers to control which Health Summary Types are on the reports tab and the order that the Health Summary Types appear in for the site. These site defaults will be used for users who do not have personal preferences set. This menu has four menu items to edit and display defaults for the site.

**Released Patches for Health Summary 2.7**

<b>Patch #</b>	<b>Description</b>	<b>Release Date</b>
GMTS*2.7*1	Syntax Error in GMTS	12/28/95
GMTS*2.7*2	Visit Dates, Task &	02/29/96
GMTS*2.7*3	LAB Anatomic Path Ac	09/06/96
GMTS*2.7*4	Medicine Data w/ Quo	04/12/96
GMTS*2.7*5	CVP, EADT, Nightly T	05/13/96
GMTS*2.7*6	Patient Selection	06/06/96
GMTS*2.7*7	HS Utilities, MXSTR	11/24/96
GMTS*2.7*8	HS - PCE Components	08/22/96
GMTS*2.7*9	Lab Orders/Surgical	11/08/96
GMTS*2.7*10	PCE Components	03/04/97
GMTS*2.7*11	SURGERY COMPONENT FI	10/23/98
GMTS*2.7*12	TIU-COMPATIBLE COMPO	09/29/97
GMTS*2.7*13	Spinal Cord Dysfunct	01/06/97
GMTS*2.7*14	Updated Rad/Nuc Med	05/15/97
GMTS*2.7*15	Pharmacy & Current O	06/05/98
GMTS*2.7*16	Health Summary Fixes	10/07/97
GMTS*2.7*17	Blood Bank Component	10/07/97
GMTS*2.7*18	Code change to accom	03/27/98
GMTS*2.7*19	Duplicates on CVP co	10/10/97
GMTS*2.7*20	UPDATED COMPONENTS f	06/05/98
GMTS*2.7*21	Report headings and	03/30/98
GMTS*2.7*22	Reminders-historical	11/10/97
GMTS*2.7*23	NEW REMINDER COMPONE	02/05/98
GMTS*2.7*24	Patient selection &	03/30/98
GMTS*2.7*25	Component fixes	09/10/98
GMTS*2.7*26	Imaging Component	09/09/99
GMTS*2.7*27	Y2K COMPLIANCE CHANG	04/17/98
GMTS*2.7*28	Y2K, NKA, LAB, VITAL	03/05/99
GMTS*2.7*29	Remote Data View/Pri	05/17/01
GMTS*2.7*30	HS Type Lookup/Concu	08/06/99
GMTS*2.7*31	Inactive Clinics	10/12/99
GMTS*2.7*32	Fix HS Type Lookup	09/28/99
GMTS*2.7*33	Progress Notes by Vi	10/13/99
GMTS*2.7*34	Clinical Reminder Di	06/21/00
GMTS*2.7*35	Vitals/GAF/Oncology/	05/19/00
GMTS*2.7*36	Oncology/Lab/Ad Hoc	12/06/99
GMTS*2.7*37	CPT Modifiers and RX	07/28/00
GMTS*2.7*40	Undefined Variable D	09/01/00
GMTS*2.7*42	Oncology Component C	12/21/00
GMTS*2.7*43	HFS/Window Print Fix	05/07/01
GMTS*2.7*44	Error in GAF Score	12/27/00
GMTS*2.7*45	Interdisciplinary Pr	04/20/01
GMTS*2.7*46	Consults Brief Compo	06/28/01
GMTS*2.7*47	CPRS Report Tab/NDBI	10/04/01
GMTS*2.7*48	Remote Oncology View	09/05/01
GMTS*2.7*49	Demographics/HS Type	03/05/02
GMTS*2.7*50	Spinal Cord Dysfunct	02/01/02

## Resolved E3Rs since Release of Health Summary 2.7

E3R	Date	Description	Resolution
2612	JUN 23,1993	SPECIAL INSTRUCTIONS	Rolled into E3R 9218 12/10/1996 Print Special Instruction in Unit Dose UD
3111	OCT 14,1993	PN COMPONENT	Release Text Integration Utility v 1.0 Jun 20, 1997
5636	JAN 3,1995	RX/CV SELECTED COMPONENTS	GMTS*2.7*5
6128	MAR 30,1995	Oncology Component	Release of Oncology Component in GMTS*2.7*36 Dec 4, 1999
6476	JUN 12,1995	SHOW ONLY CERTAIN PROGRESS NOTES (BY TITLE)	Release Text Integration Utility v 1.0 Jun 20, 1997
6568	JUN 30,1995	ACTION PROFILE BY PATIENT	This was included with Health Summary 2.7
6734	JUL 21,1995	NEED API TO SELECT COMPONENTS	Will document MAIN^GMTSADOR as a supported API for version 2.7. This entry point will work for version 2.5 also.
6830	AUG 9,1995	UNIQUE FIRST LETTER IN OPTION NAMES	Will fix in current version.
7072	SEP 27,1995	ADD COMPONENT OF "PROGRESS NOTES BY TITLE"	Release of Text Integration Utility v 1.0 Jun 20, 1997
7290	NOV 8,1995	IMMUNIZATION DATE	Functionality currently exists in Health Summary 2.7.
7475	DEC 12,1995	UNSIGNED D/C SUMMARY INCLUDED IN HS TOOL	The Health Summary EP discussed this request on Feb. 29, 1996. It was determined to leave the Discharge Summary components as they currently are. What is being shown, meets with the Discharge Summary EPs requirements.
7562	DEC 29,1995	ABREVIATE THE TEXT OF THE DESCRIPTION	The site's ability to specify the format of the ICD9 text and Provider Narrative in version 2.7 accommodates this requests.
7563	DEC 29,1995	GROUPING OF CLINICS	The Health Summary EP discussed this on February 29, 1996. It was determined that at this time this request can't be met with the existing tools. The EP recommended deferring this request till the primary Care Module comes out. This request can then be review again to see if we can provide this functionality

<b>E3R</b>	<b>Date</b>	<b>Description</b>	<b>Resolution</b>
7564	DEC 29,1995	NEW COMPONENT	The Health Summary EP reviewed this request on Feb. 29, 1996. This information is available through the PIMS package. The EP decided that a new component shouldn't be developed based on this request since it is available through the PIMS package and components provide data for a specific patient not for a group of patients
7592	JAN 9,1996	LOG OFF PROGRAM	There was a PGMOV at the site. I worked with the IRM Service to resolve the problem. Mr. Klein has been made aware of the situation. A NOIS, #50353, was entered and closed with documentation relating to this issue.
7614	JAN 15,1996	CREATING A COMPACT DISPLAY FOR SIGN OUT SHEETS	The Health Summary Expert Panel Discussed this on Feb. 29, 1996. The Health Summary package was developed to provided data by patient. It wasn't set up to be a report generator. The format for a Health Summary Type and components was specified by the EP and through test sites. Health Summary was never meant to provide an avenue to input data into a chart copy. Its purpose is to display the data that exist for a patient based upon which components are included in a health summary type. This issue has been discussed before. It get to the point of what should Health Summary be? Should it also be a report generator? This issue was taken to the CARG for resolution and as far as we know, the CARG has never provided the EP with a resolution.
7716	FEB 1,1996	SHOW DATE OF DEATH NEXT TO DECEASED.	The Date of Death as requested has been included on Patch GMTS*2.7*2 that was released to the field (2/29/96).
7736	FEB 6,1996	TOO MANY CARRIAGE RETURNS	The Health Summary EP discussed this on Feb. 29, 1996. They determined to deny this request.
7791	FEB 15,1996	SELECTED PROGRESS NOTES	This has been requested previously. Version 3.0 of Progress Notes is currently being developed using the Text Integration Tools package. It was determine that this request should be done for version 3.0 of progress notes.
7849	FEB 27,1996	CREATE COMPONENT FOR PROBLEM LIST TO SHOW COMMENTS	Already included in the current version of Health Summary.

<b>E3R</b>	<b>Date</b>	<b>Description</b>	<b>Resolution</b>
8397		SELECT ANOTHER PATIENT MALFUNCTION	Patient Selection updated in OR 3.0/CPRS.
8573	JUL 16,1996	NEW COMPONENT FOR SELECTED PROGRESS NOTES TITLES	Released Text Integration Utility v 1.0 Jun 20, 1997
8590	JUL 19,1996	DISPLAY VITALS IN CENTIGRADE AND KGS	The request has been included in patch, GMTS*2.7*8, routines released 8/22/96 with PCE v1.0. Information patch from health summary released.
9149	NOV 22,1996	DISPLAY COMMENT FIELDS IN PCE	The Comments have been added to the Health Summary components as requested. Patch, GMTS*2.7*10 along with PX*1*13, were released to provide this functionality.
9347	JAN 16,1997	INPT DO NOT SHOW ON OUTPATIENT ENCOUNTER LIST	Patches GMTS*2.7*10 and PX*1*13 were released that will provide for inpatients being included on the health summary component for Outpatient Encounters.
9380		FILTER PROGRESS NOTES BY TITLE	Released Test Integration Utilities v 1.0 Jun 20, 1997
12417	MAY 3,2001	ADD HS COMPONENT FOR PCMM PROVIDER/TEAM	Rolled into E3R 11290, 7/15/1998, New Component - Primary Care PCMM
13770	JAN 31,2000	ADD PAIN TO VITAL SIGNS COMPONENT	This E3R is being resolved by a Health Summary patch that is currently under development.
8406	JUN 10,1996	TEAM CARE COMPONENT	Resolved by GMTS*2.7*49
11290	JUL 15, 1998	PRIMARY CARE DATA	Resolved by GMTS*2.7*49
16528	OCT 22,2001	NEED HEALTH SUMMARY SETTING	Resolved by GMTS*2.7*49





# Health Summary Implementation & Maintenance

---

The Health Summary Maintenance Menu contains the following options for implementing and maintaining Health Summary.

Option	Description
<b>Disable/Enable Health Summary Component</b>	Selectively enable or disable Health Summary Components. A disable action may be identified as either temporary or permanent. When a component is temporarily disabled, an "OUT OF ORDER MESSAGE" may be entered and displayed with the component. When permanently disabled, the component is not displayed.
<b>Create/Modify Health Summary Components</b>	Create/modify new Health Summary components, either by duplication and renaming of existing components or by entering all appropriate fields for a component created on-site.
<b>Edit Ad Hoc Health Summary Type</b>	Enter/edit a component's default parameters (Time and Occurrence limits, Selection Items, Hospital Location Displayed, ICD Text Displayed, Provider Narrative Displayed, Header names, and whether to print component headers if no data is available), or delete components of the Ad Hoc Health Summary Type.
<b>Rebuild Ad Hoc Health Summary Type</b>	Reloads the Ad Hoc Health Summary Type with ALL (previously defined) components, including any defined by the site, and, optionally, all DISABLED components sequenced alphabetically by name. Disabled components will not be displayed, but when they are re-enabled will automatically show up in the Ad Hoc Health Summary if they are included in the rebuild.
<b>Resequence a Health Summary Type</b>	Resequence the components of a given Health Summary Type from 5, in increments of 5 (e.g., 5, 10, 15, 20,...,5 <i>n</i> where <i>n</i> is the total number of components).

Option	Description
<b>Create/Modify Health Summary Type</b>	Create a new or modify an existing health summary type. New types created by this option automatically define the type's owner as the creator, unless the creator holds the GMTSMGR security key. If the creator has this key, the GMTSMGR holder may designate anyone as the owner.
<b>Edit Health Summary Site Parameters</b>	Edit four Health Summary parameters to local specifications: 1) PROMPT FOR ACTION PROFILE; editing this parameter to YES allows users to be prompted for printing a patient's Outpatient Pharmacy Action Profile in tandem with a health summary. 2) INCLUDE BAR CODE ON ACTION PROFILES; editing this parameter to YES allows bar codes to be printed with Action Profiles. 3) INCLUDE COMMENTS ON LABS; editing this parameter to YES causes comments to be printed in the Chemistry and Hematology, the Lab Test Selected, and the Lab Cumulative components. 4) SPOOL DEVICE; specify spool device name to which Health Summary output can be directed during a PDX request.

## Set Up Site Parameters

Use the Edit Health Summary Site Parameters option in the Health Summary Maintenance Menu [GMTS IRM/ADPAC MAINT MENU] to review and set up the site parameters. These parameters allow users to:

- Print an Outpatient Pharmacy Action Profile in tandem with a Health Summary.
- Print bar codes when Action Profiles are printed.
- Present Lab comments at display indicating comments are available for the Lab Chemistry and Hematology, the Lab Cumulative Selected, and the Lab Tests Selected components, or present the !! symbol to indicate comments are available for the Chemistry and Hematology and Lab Tests Selected components.
- Specify a spool device where PDX requests will be stored .

See example on next page.

## Example

```
Select Health Summary Maintenance Menu Option: 7  Edit Health Summary Site
Parameters
Select HEALTH SUMMARY PARAMETERS: ?
  ANSWER WITH HEALTH SUMMARY PARAMETERS NAME:
    HOSPITAL

      YOU MAY ENTER A NEW HEALTH SUMMARY PARAMETERS, IF YOU WISH
      NAME MUST BE HOSPITAL
Select HEALTH SUMMARY PARAMETERS: HOSPITAL
PROMPT FOR ACTION PROFILE: YES// ??
  If this parameter is set to Y or YES, the user will be prompted to
  include the Outpatient Pharmacy Action Profile when printing Health
  Summaries by location (both interactive and batch mode) and by patient.
  CHOOSE FROM:
    Y          yes
    N          no
PROMPT FOR ACTION PROFILE: YES// Y  YES
INCLUDE BAR CODES ON ACTION PROFILES: ?
  Enter YES to include bar codes when Action Profiles are printed by
  Health Summary
  Choose from:
    Y          yes
    N          no
INCLUDE BAR CODES ON ACTION PROFILES: YES// <RET>  YES
INCLUDE COMMENTS FOR LABS: YES// ??
  If this parameter is set to Y or YES, the Chemistry & Hematology, the
  Lab Tests Selected, and the Lab Cumulative Selected components will
  present comments for results. For the Chemistry & Hematology and the
  Lab Tests Selected components, the comments will be displayed
  immediately following the results. For the Lab Cumulative Selected
  components, a lower-case letter will be displayed to the left of the
  date for entries with comments. Comments will be displayed after all
  the results are displayed , with the comments linked by the lower-case
  letter. Up to 26 comments can be included.

  If blank, N or NO, the Chemistry & Hematology and the Lab Tests components
  will present the symbol "!!" next to tests which include
  comments, and a footnote referring the user to the Lab Interim Report.
  CHOOSE FROM:
    Y          yes
    N          no
INCLUDE COMMENTS FOR LABS: YES// <RET>  YES
SPOOL DEVICE: SPOOL// ??
  This is the SPOOL DEVICE to which Health Summary output can be directed
  during a PDX request for one or more Health Summary components.
  Choose from:
    SPOOL          SPOOL TO VMS          DSAB:[MUMPS,DEVPMGR]

SPOOL DEVICE : SPOOL

Select HEALTH SUMMARY PARAMETERS: <RET>
```

## Ad Hoc Health Summaries

Temporary (ad hoc) health summaries can be created “on-the-fly” and run for individual patients, as follows:

1. First, select a combination of components from a menu of all available components.
2. Next, (if applicable) specify time limits, occurrence limits, hospital location, ICD text display, provider narrative display, and selection items for any of the components, or accept site-defined defaults.
3. Then, select a patient and run the resulting health summary.

Both pre-defined and ad hoc health summaries may be run interactively on your terminal, or directed to any printer. Pre-defined health summary types can also be queued to run nightly for all patients at any specified location(s). Either interactive or batch-mode print-by-location health summaries may also be printed “in tandem” with the Outpatient Pharmacy Action Profile (including bar codes) for each of the patients at the selected location.

## CPRS Interface

Health Summary V. 2.7 interfaces with the Computerized Patient Record System (CPRS) to provide Order Entry users with an integrated view of both *orders* (from CPRS) and *results* (from Health Summary). This interface, in turn, enhances Health Summary by allowing Health Summary users:

- *Multiple Patient Selection.*  
You can select multiple patients from ward, clinic, treating specialty, attending physicians, personal or team lists. Health Summary uses enhanced patient look-up routines in CPRS for reporting results.

## Relationship to Integrated Billing's Encounter Form Utilities

The Integrated Billing package (Encounter Form Utilities) includes a Print Manager that allows sites to define reports that should print along with encounter forms for a specific clinic or division and for specified appointments. One of the options, “Define Available Health Summary,” allows a health summary to be made available for use by the print manager. See the *IB Encounter Form Utilities User Manual* for further information.

## Nightly Batch Processing

The Health Summary package allows coordinators to schedule batch processing of health summaries for patients in a particular ward, or to schedule batch processing of health summaries a specified number of days before patients are scheduled for clinic visits or operating rooms. The benefits of batch processing are:

- 1) It enables the clinic to have the most currently available clinical information when the patient arrives for the appointment, and
- 2) Processing of the prints takes place during non-peak computer hours.

To use this feature the IRM Service must first use the option Schedule/Unschedule Options on the the TaskMan menu, and schedule the GMTS TASK STARTUP option to initiate nightly batch printing. (See page 31 in the *Health Summary Installation Guide*.) Each time this option runs, it uses the parameters set up by the Health Summary Coordinator in the Set up Batch Print Locations option. For Version 2.7 of Health Summary, this option has been updated to recognize non-workdays. For clinics and operating rooms, if it is set up to print two days in advance, Tuesday's clinics will print on Friday rather than on Sunday. If Tuesday happens to be a holiday, the Wednesday clinics will print on Friday.

## Health Summary Components Headers and Abbreviations

Use the Information Menu option (available in all three Health Summary user menus) to get an online listing of the information contained in each health summary component or health summary type.

## Customized Health Summary Types

A user with access to the Coordinator's or Enhanced menu can create a customized health summary type. Use the Create/Modify Health Summary Type menu option located on the Health Summary Enhanced Menu or the Build Health Summary Type submenu of the Health Summary Coordinator's menu. Select the desired components, and (depending on the data required by the selected components) apply time limits or maximum occurrence limits to components which are date-sensitive. You may also apply ICD text, provider narrative, selection items, and header names for components that allow these to be specified.

Users who do not have access to the enhanced or coordinator's menus can request a customized health summary type from their IRMS or Health Summary coordinator. The

form entitled “Request for Health Summary Type,” located in Appendix A of the *Health Summary User Manual*, is a convenient way to submit such requests.

### Customizing the Ad Hoc Health Summary Type

You can also customize the Ad Hoc Health Summary Type with the Edit Ad Hoc Health Summary Type option on the Maintenance Menu. This option lets you modify time and/or occurrence limits, hospital location displayed, ICD text displayed, provider narrative displayed, header names, or assign selection items (tests like WBC, Glucose) to the *selected* health summary components (Lab Cumulative Selected, Lab Cumulative Selected 1-4, Lab Tests Selected, Measurement Selected, Vital Signs Selected, and Radiology Impression Selected, etc.). Consult with your clinical coordinator and/or users about which selection items they would like to have on their Health Summaries.

You may select individual components and edit their default parameters, or use the ^LOOP feature at the Select COMPONENT: prompt to loop through all of the components, editing the default values as you go.

**NOTE:** When selecting components from the Ad Hoc Health Summary menu, entering “ALL” allows all components to be selected. If the first three characters of a HEADER NAME for a component are designated as “All,” however, then only the defined component will be selected. Avoid conflicts and loss of functionality by not using “all” at the front of new header names.

### Edit Ad Hoc Health Summary Type Example

**NOTE:** Bold-faced text indicates user entries.

```
Select Health Summary Overall Menu Option Name: Health Summary Maintenance Menu
  1      Disable/Enable Health Summary Component
  2      Create/Modify Health Summary Components
  3      Edit Ad Hoc Health Summary Type
  4      Rebuild Ad Hoc Health Summary Type
  5      Resequence a Health Summary Type
  6      Create/Modify Health Summary Type
  7      Edit Health Summary Site Parameters

Select Health Summary Maintenance Menu Option: Edit Ad Hoc Health Summary Type

Edit Ad Hoc Health Summary Type

>>> EDITING the GMTS HS ADHOC OPTION Health Summary Type
SUPPRESS PRINT OF COMPONENTS WITHOUT DATA:

Do you wish to review the Summary Type structure before continuing? NO// <RET>
Select COMPONENT: PROB
  1      PROBLEM LIST ACTIVE                PLA
  2      PROBLEM LIST ALL                   PLL
  3      PROBLEM LIST INACTIVE              PLI
CHOOSE 1-3: 1
SUMMARY ORDER: 5//<RET> 5
ICD TEXT DISPLAYED: ??
```

This field controls hows ICD text is displayed in components where ICD Text applies (e.g., PCE Outpatient Encounters, PCE Outpatient Diagnosis and Problem List All). The applicable component display/print can be customized to include ICD Text in the following format: code and long description, code and short description, code only, long description only or nothing. This control is independent of whether provider narrative is displayed -- either or both may be specified.

Choose from:

L	long text
S	short text
C	code only
T	text only
N	none

ICD TEXT DISPLAYED: **S** short text

PROVIDER NARRATIVE DISPLAYED: **??**

This field controls whether provider narrative is displayed or not. It applies to components where provider narrative is applicable (e.g., PCE Outpatient Encounters, PCE Outpatient Diagnosis, Problem List All). This control is independent of whether or not ICD text is displayed -- either or both may be specified. If not specified, provider narrative will be displayed by default.

Choose from:

Y	yes
N	no

PROVIDER NARRATIVE DISPLAYED: **Y** yes

HEADER NAME: Active Problems// **<RET>**

Select COMPONENT: **<RET>**

Do you wish to review the Summary Type structure before continuing? NO// **<RET>YES**

HEALTH SUMMARY TYPE INQUIRY

Type Name: GMTS HS ADHOC OPTION

Title: Ad Hoc Health Summary Type

Owner: LOCK: GMTSMGR

SUPPRESS PRINT OF COMPONENTS WITHOUT DATA:

Abb.	Order	Component Name	Max Occ	Time	Hosp Loc	ICD Text	Prov Narr	Selection
PLA	5	Active Problems				short	yes	

\* = Disabled Components

Select COMPONENT:<RET>



## Routine Descriptions

---

### Namespace: *GMTS*

XUPPROU (List Routines) prints a list of any or all of the Health Summary routines. This option is found on the XUPR-ROUTINE-TOOLS menu on the XUPROG (Programmer Options) menu, which is a sub-menu of the EVE (Systems Manager Menu) option.

```
Select Systems Manager Menu Option: programmer Options
Select Programmer Options Option: routine Tools
Select Routine Tools Option: list Routines
Routine Print
Want to start each routine on a new page: No// [ENTER]
routine(s) ?    > GMTS*
```

The first line of each routine contains a brief description of the general function of the routine. Use the Kernel option XU FIRST LINE PRINT (First Line Routine Print) to print a list of just the first line of each GMTS subset routine.

```
Select Systems Manager Menu Option: programmer Options
Select Programmer Options Option: routine Tools
Select Routine Tools Option: First Line Routine Print
PRINTS FIRST LINES
routine(s) ?    >GMTS*
```



# Files and Globals List

---

The following is a list of the files contained in the Health Summary package, including file number, name, global location, and an indicator if data comes with the file.

<u>Number</u>	<u>Name</u>	<u>Global</u>	<u>Data</u>
<b>142</b>	HEALTH SUMMARY TYPE	^GMT(142,	YES

## Description

This file contains the structure of a health summary. Components from the Health Summary Components file (142.1) may be selected and restricted by number of occurrences or time limits. The original creator of a type of Health Summary is the owner of that type. Health summaries that are “owned” may not be modified or deleted by anyone except the Clinical Coordinator. “Owned” Health Summaries may be used by other users to print patient information.

<u>Number</u>	<u>Name</u>	<u>Global</u>	<u>Data</u>
<b>142.1</b>	HEALTH SUMMARY COMPONENT	^GMT(142.1,	YES

## Description

This file contains all components which may be used to create a Health Summary. These entries are typically defined by a programmer. Components which represent packages that are not in use may be disabled, so they will not be selected by users to build new types of health summary reports.

<b>142.98</b>	HEALTH SUMMARY USER PREFERENCES	^GMT(142.98,	YES
---------------	---------------------------------	--------------	-----

## Description

This file determines how the list of Health Summary Types for the CPRS GUI report tab is to be organized (APPEND or OVERWRITE) for user selection. There are three major classes of Health Summary types, National (remote data view), user defined and system defined. User and system Health Summary Types are defined in the Kernel Parameters file. Append creates a single list, removing duplicates, and keeps theNational Health Summary types group together. Overwrite stops building the list once a single group of Health Summary Types (User or System) is added to the list.

<b>142.99</b>	HEALTH SUMMARY PARAMETERS	^GMT(142.99,	NO
---------------	---------------------------	--------------	----

## Description

This file contains any site parameters that apply to the Health Summary package. Currently there are four site parameters: 1) PROMPT FOR ACTION PROFILE; 2) INCLUDE BAR CODE ON ACTION PROFILES; 3) INCLUDE COMMENTS ON LABS; 4) SPOOL DEVICE



## Exported Menus, Options, and Function

---

The Health Summary Overall Menu [GMTS MANAGER] contains four menus:

1. Health Summary Menu [GMTS USER]
2. Health Summary Enhanced Menu [GMTS ENHANCED USER]
3. Health Summary Coordinator's Menu [GMTS COORDINATOR]
4. Health Summary Maintenance Menu [GMTS IRM/ADPAC MAINT MENU]

Assign these menus as follows:

1. Give the Health Summary Menu [GMTS USER] menu to users who only need to print or display health summaries.
2. Give the Health Summary Enhanced Menu [GMTS ENHANCED USER] menu to users who need to create, modify, or delete their *own* health summary types, in addition to printing health summaries.
3. Give the Health Summary Coordinator's Menu [GMTS COORDINATOR] menu to users who need to print or display health summaries, and who will also need to create, modify, or delete health summary types, and set up nightly batch printing at specified locations.
4. Give the Health Summary Maintenance Menu [GMTS IRM/ADPAC MAINT MENU] to IRM staff or the Clinical Coordinator for any implementation and maintenance issues in Health Summary. This menu contains options to disable/enable health summary components for selection/display, create/modify new health summary components, edit and rebuild the Ad Hoc Health Summary Type, resequence the components in a health summary type, create/modify a health summary type, delete a health summary type, and edit health summary site parameters.
5. If an IRM staff member or the Clinical Coordinator needs access to all menus, give the Health Summary Overall Menu [GMTS MANAGER] to those users rather than assigning each menu option separately.

## **Health Summary Overall Menu [GMTS MANAGER]**

**NOTE:** New menus and options (since the original release of v2.7) are highlighted in red.

### **1. Health Summary Coordinator's Menu [GMTS COORDINATOR]**

- 1 Print Health Summary Menu ... [GMTS HS MENU]
  - 1 Patient Health Summary [GMTS HS BY PATIENT]
  - 2 Ad Hoc Health Summary [GMTS HS ADHOC]
  - 3 Range of Dates Patient Health Summary [GMTS HS BY PATIENT & DATE RANG]
  - 4 Visit Patient Health Summary [GMTS HS BY PATIENT & VISIT]
  - 5 Hospital Location Health Summary [GMTS HS BY LOC]
  - 6 Batch Print of All Clinics by Visit Date [GMTS HS FOR ALL CLINICS]
- 2 Build Health Summary Type Menu ... [GMTS BUILD MENU]
  - 1 Create/Modify Health Summary Type [GMTS TYPE ENTER/EDIT]
  - 2 Delete Health Summary Type [GMTS TYPE DELETE]
- 3 Information Menu ... [GMTS INFO ONLY MENU]
  - 1 Inquire about a Health Summary Type [GMTS TYPE INQ]
  - 2 List Health Summary Types [GMTS TYPE LIST]
  - 3 Inquire about a Health Summary Component [GMTS COMP INQ]
  - 4 List Health Summary Components [GMTS COMP LIST]
  - 5 List Health Summary Component Descriptions [GMTS COMP DESC LIST]
- 4 Print Health Summary Menu ... [GMTS HS MENU]
  - 1 Patient Health Summary [GMTS HS BY PATIENT]
  - 2 Ad Hoc Health Summary [GMTS HS ADHOC]
  - 3 Range of Dates Patient Health Summary [GMTS HS BY PATIENT & DATE RANG]
  - 4 Visit Patient Health Summary [GMTS HS BY PATIENT & VISIT]
  - 5 Hospital Location Health Summary [GMTS HS BY LOC]
  - 6 Batch Print of All Clinics by Visit Date [GMTS HS FOR ALL CLINICS]
- 3 Set-up Batch Print Locations [GMTS HS BY LOC PARAMETERS]
- 4 List Batch Health Summary Locations [GMTS TASK LOCATIONS LIST]
- 5 CPRS Reports Tab 'Health Summary Types List' Menu [GMTS GUI REPORTS LIST MENU]**
  - 1 Display 'Health Summary Types List' Defaults [GMTS GUI HS LIST DEFAULTS]**
  - 2 Precedence of 'Health Summary Types List' [GMTS GUI HS LIST PRECEDENCE]**
  - 3 Method of compiling 'Health Summary Types List' [GMTS GUI HS LIST METHOD]**
  - 4 Edit 'Health Summary Types List' Parameters [GMTS GUI HS LIST PARAMETERS]**

### **2. Health Summary Enhanced Menu [GMTS ENHANCED USER]**

- 1 Patient Health Summary [GMTS HS BY PATIENT]
- 2 Ad Hoc Health Summary [GMTS HS ADHOC]
- 3 Range of Dates Patient Health Summary [GMTS HS BY PATIENT & DATE RANG]
- 4 Visit Patient Health Summary [GMTS HS BY PATIENT & VISIT]
- 5 Hospital Location Health Summary [GMTS HS BY LOC]
- 6 Information Menu ... [GMTS INFO ONLY MENU]
  - 1 Inquire about a Health Summary Type [GMTS TYPE INQ]
  - 2 List Health Summary Types [GMTS TYPE LIST]
  - 3 Inquire about a Health Summary Component [GMTS COMP INQ]
  - 4 List Health Summary Components [GMTS COMP LIST]

- 5 List Health Summary Component Descriptions [GMTS COMP DESC LIST]
- 7 Create/Modify Health Summary Type [GMTS TYPE ENTER/EDIT]
- 8 Delete Health Summary Type [GMTS TYPE DELETE]
- 9 CPRS Reports Tab 'Health Summary Types List' Menu [GMTS GUI REPORTS LIST MENU]**
  - 1 Display 'Health Summary Types List' Defaults [GMTS GUI HS LIST DEFAULTS]**
  - 2 Precedence of 'Health Summary Types List' [GMTS GUI HS LIST PRECEDENCE]**
  - 3 Method of compiling 'Health Summary Types List' [GMTS GUI HS LIST METHOD]**
  - 4 Edit 'Health Summary Types List' Parameters [GMTS GUI HS LIST PARAMETERS]**

### **3. Health Summary Menu [GMTS USER]**

- 1 Patient Health Summary [GMTS HS BY PATIENT]
- 2 Ad Hoc Health Summary [GMTS HS ADHOC]
- 3 Range of Dates Patient Health Summary [GMTS HS BY PATIENT & DATE RANG]
- 4 Visit Patient Health Summary [GMTS HS BY PATIENT & VISIT]
- 5 Hospital Location Health Summary [GMTS HS BY LOC]
- 6 Information Menu ... [GMTS INFO ONLY MENU]
  - 1 Inquire about a Health Summary Type [GMTS TYPE INQ]
  - 2 List Health Summary Types [GMTS TYPE LIST]
  - 3 Inquire about a Health Summary Component [GMTS COMP INQ]
  - 4 List Health Summary Components [GMTS COMP LIST]
- 7 CPRS Reports Tab 'Health Summary Types List' Menu [GMTS GUI REPORTS LIST MENU]**
  - 1 Display 'Health Summary Types List' Defaults [GMTS GUI HS LIST DEFAULTS]**
  - 2 Precedence of 'Health Summary Types List' [GMTS GUI HS LIST PRECEDENCE]**
  - 3 Method of compiling 'Health Summary Types List' [GMTS GUI HS LIST METHOD]**
  - 4 Edit 'Health Summary Types List' Parameters [GMTS GUI HS LIST PARAMETERS]**

### **4. Health Summary Maintenance Menu [GMTS IRM/ADPAC MAINT MENU]**

- 1 Disable/Enable Health Summary Component [GMTS IRM/ADPAC ENABLE/DISABLE]
- 2 Create/Modify Health Summary Components [GMTS IRM/ADPAC COMP EDIT]
- 3 Edit Ad Hoc Health Summary Type [GMTS IRM/ADPAC ADHOC EDIT]
- 4 Rebuild Ad Hoc Health Summary Type [GMTS IRM/ADPAC ADHOC LOAD]
- 5 Resequence a Health Summary Type [GMTS IRM/ADPAC TYPE RESEQUENCE]
- 6 Create/Modify Health Summary Type [GMTS TYPE ENTER/EDIT]
- 7 Edit Health Summary Site Parameters [GMTS IRM/ADPAC PARAMETER EDIT]
- 8 CPRS Reports Tab 'Health Summary Types List' Menu [GMTS GUI REPORTS LIST MENU]**
  - 1 Display 'Health Summary Types List' Defaults [GMTS GUI HS LIST DEFAULTS]**
  - 2 Precedence of 'Health Summary Types List' [GMTS GUI HS LIST PRECEDENCE]**

- 3 Method of compiling 'Health Summary Types List' [GMTS GUI HS LIST METHOD]
- 4 Edit 'Health Summary Types List' Parameters [GMTS GUI HS LIST PARAMETERS]
- 9 CPRS Health Summary Display/Edit Site Defaults [GMTS GUI SITE DEFAULTS]
  - 1 Display Site Health Summary List Defaults [GMTS GUI SITE DISPLAY DEFAULTS]
  - 2 Edit 'Health Summary Types List' Parameters [GMTS GUI SITE ADD/EDIT LIST]
  - 3 Edit Default HS Type List Compile Method [GMTS GUI SITE COMPILE METHOD]
  - 4 Add/Edit Allowable Entities for HS List [GMTS GUI SITE PRECEDENCE]
  - 5 Resequence Allowable Entities for HS List [GMTS GUI SITE RESEQUENCE]

## Function

Health Summary exports a function called GMTS COMPONENT NAME. It is used for writing the HEADER NAME, DEFAULT HEADER NAME, or COMPONENT NAME in Health Summary reports.



## Cross-References

---

The number-space for Health Summary files is 142\*. Use the VA FileMan DATA DICTIONARY UTILITIES, option #8 ( DILIST, List File Attributes), to print a list of these files. Depending on the FileMan template used to print the list, this option will print out all or part of the data dictionary for the GMTS files. If you choose the “Standard” format, you can see cross-reference information for a specified file(s):



# Purging and Archiving

---

## Archiving

The Health Summary package does not provide archiving functionality because data is only stored for the Health Summary Type (#142), Health Summary Component (#142.1), and Health Summary Parameters (#142.99) files.

The Health Summary package does not duplicate storage of VISTA ancillary package data. Data is extracted as needed from the ancillary packages, is temporarily stored in ^TMP(<namespace>,\$J, or ^UTILITY(\$J, and is deleted after the component has been printed or displayed.

## Purging

The Delete Health Summary Type option [GMTS TYPE DELETE] is available on both the Coordinator's and the Enhanced menus. The owner of a health summary type may delete it.

Privacy Act laws specifically state that patient information in VISTA which is retrievable by patient identifier is part of the patient medical record. Printed Health Summary information is patient information that is retrievable by patient identifier, and is considered part of the patient record. However, since the information on the Health Summary can be found elsewhere in the patient record, administrators in a Medical Center can choose whether or not to file hard copies of health summaries in the medical record. If you choose to file copies in the medical record, be aware that *information in a health summary is only a summary and may not be complete in many cases.*



## Callable Routines

---

Health Summary does not provide any publicly supported entry points. Included below is a list of entry points that are used by the Health Summary package. Use of these entry points by other packages requires a private Data Base Integration Agreement (DBIA) with Health Summary.

### **Routine: GMTS:** *Health Summary Main Routine*

Entry Point	Comments
ENCWA	<p>Entry point for printing without going through Health Summary print options and a pre-defined health summary type.</p> <p>Receives:            DFN as valid patient internal entry number                          GMTSPRM = "CD, CN,CW,ADR". These are                          valid component abbreviations from the "C"                          cross reference of File 142.1. Does not support                          components that require selection items.                          GMTSTITL="Text of Title"</p> <p>GMTSPX1 - Optional internal FM date for range ending date GMTSPX2 - Optional internal FM date for range beginning date</p> <p>NOTE:                Optional date range variables are both required                          if a date range is desired.</p> <p>Returns:              Health Summary report for a patient and the                          specific components defined in GMTSPRM.</p>

**Routine: GMTSADOR:** *Ad Hoc Summary Driver*

Entry Point	Comments
MAIN	<p>Entry point to allowing the user to define components and defaults through the Ad Hoc menu interface and print health summaries for a programmer-specified patient and device.</p> <p>Receives:        DFN as valid patient internal entry number. If                               DFN is not defined but the ORVP variable is, DFN                        will          be set to the DFN in this variable. This is done                               to allow this entry point to be called through a                               protocol in support of OE/RR. If DFN and ORVP                               don't exist, the user will be prompted to enter a                               patient.</p>

**Routine: GMTSDVR:** *Health Summary Alternate Driver (OE/RR V2.5 compatible)*

Entry Point	Comments
ENX(DFN, GMTSTYP, GMTSPX2, GMTSPX1)	<p>Entry point, with parameters, for printing a health summary for a programmer-specified patient and device, without prompting for additional information.</p> <p>Receives:        DFN as valid patient internal entry number</p> <p>                     GMTSTYP as a valid health summary type                               internal entry number.</p> <p>                     GMTSPX1 and GMTSPX2 are optional Date and                               Range variables. They allow the time limits to be                               overridden for components that use time limits.                               Thus, beginning and ending dates can be                               specified in order to get only data within that                               time range.</p> <p>GMTSPX2 - Internal FileMan date for beginning date range          GMTSPX1 - Internal FileMan date for ending date range</p>

**Routine: GMTSDVR: Health Summary Alternate Driver (OE/RR V2.5 compatible)**  
*cont'd*

Entry Point	Comments
ENXQ	<p>External call for tasked Health Summary printing.</p> <p>Receives:           DFN as valid patient internal entry number</p> <p>                          GMTSTYP as a valid health summary type internal entry number.</p> <p>                          GMTSPX1 - Optional internal FM date for range ending date</p> <p>                          GMTSPX2 - Optional FM date for range beginning date</p> <p>NOTE:               Optional date range variables are both required if a date range is desire</p>

**Routine: GMTSU: Health Summary Utilities routine**

Entry Point	Comments
MTIM	<p>Converts time from an internal format to a display format.</p> <p>Receives:           X=internal format Date/time as 2900310.1300</p> <p>Returns:            X=printable time as 13:00</p>
REGDT	<p>Gets internal date and formats as MM/DD//YY</p> <p>Receives:           X=internal format Date/time as 2900310.1300</p> <p>Returns:            X=03/10/90</p>
REGDTM	<p>Gets regular date and formats with time.</p> <p>Receives:           X=internal format Date/time as 2900310.1300</p> <p>Returns:            X=03/10/90 13:00</p>
SIDT	<p>Gets date in SI format as DD MMM YY</p> <p>Receives:           X as internal FM date/time, e.g., 2890630.1650</p> <p>Returns:            X=30 JUN 89</p>
FMHL7DTM	<p>Gets HL7 format date/time as CCYYMMDDHHMM</p> <p>Receives:           X=internal format 2900310.1300 as Date/time</p> <p>Returns:            X=29003101300</p>

**Routine: GMTSU: Health Summary Utilities routine cont'd**

Entry Point	Comments
DEM	Gets Demographic data from VADPT Receives: DFN Returns: GMTSPNM,GMTSSN,GMTSDOB,SEX, GMTSWARD,GMTSRB,GMTSAGE
NAME	Formats names. Receives: FILE=(200) IFN=(internal file number for above file), NML=(desired length for name to be returned) FNF=0 for FI, 1 for FN (flag to specify first name format)
GETRANGE (Fromdate, Todate)	Returns: NM=Lastname,First(name/initial) to specified length.  Receives: Fromdate and Todate which are variables (passed by reference) that will return the From date and the To date in inverted order.  Fromdate Inverted date to be used as stop date for displaying most recent data first. Todate Inverted date to be used as start date for displaying most recent data first.

**Routine: GMTSUP: Pagination Utilities**

Entry Point	Comments
CKP	Called from all component print routines; before printing each line checks \$Y and flags form feeds. Receives: DFN as valid patient internal entry number Returns: GMTSNPG=0; No form feed has been forced GMTSNPG=1; Form feed has been forced GMTSQIT=defined when an up-arrow (^) has been entered to quit summary
CKP1	Help display of the optional components for navigation.
BREAK	Called from CKP before printing the component data and when form feeds are forced. Writes the delimiter of each component.
HEADER	Called from the driver at the beginning of the summary, and from CKP when form feeds are forced. Writes the running head of the summary report.



# External Relations

---

Non-destructive, read-only component routines have been written to present VISTA ancillary package data.

## Database Integration Agreements

The Health Summary package interacts with, and extracts data from many other VISTA software packages. Permission for Health Summary to use data from the other packages is obtained by completing a written integration agreement with each of the other packages. Complete integration agreements are under the DBA menu on Forum.

## Internal Relations

---

All Health Summary options are independently invokable.

# Generating Online Documentation

---

## KIDS Build and Install Print Options

### Print a list of package components

Use the KIDS Build File Print option if you would like a complete listing of package components (e.g., routines and options) exported with this software.

```
>D ^XUP
Setting up programmer environment
Terminal Type set to: C-VT100

Select OPTION NAME: XPD MAIN      Kernel Installation & Distribution System menu

    Edits and Distribution ...
    Utilities ...
    Installation ...

Select Kernel Installation & Distribution System Option: Utilities

    Build File Print
    Install File Print
    Convert Loaded Package for Redistribution
    Display Patches for a Package
    Purge Build or Install Files
    Rollup Patches into a Build
    Update Routine File
    Verify a Build
    Verify Package Integrity

Select Utilities Option: Build File Print

Select BUILD NAME: GMTS*2.7*49      HEALTH SUMMARY
DEVICE: HOME// ;;999  ANYWHERE

PACKAGE: GMTS*2.7*49      Feb 26, 2002 11:11 am      PAGE 1
-----
TYPE: SINGLE PACKAGE
TRACK NATIONALLY: YES
NATIONAL PACKAGE: HEALTH SUMMARY
DESCRIPTION:
The description of this build is found in the National Patch Module under
patch GMTS*2.7*49.

ENVIRONMENT CHECK :
  PRE-INIT ROUTINE : PRE^GMTSP49
  POST-INIT ROUTINE : POST^GMTSP49
  PRE-TRANSPORT RTN :

PRINT TEMPLATE:
```

GMTS TYPE INQ	FILE #142	SEND TO SITE
ROUTINE:		
GMTS		SEND TO SITE
GMTS1		SEND TO SITE
GMTSADH2		SEND TO SITE
GMTSADH3		SEND TO SITE
GMTSADH5		SEND TO SITE
GMTSALG		SEND TO SITE
GMTSALGB		SEND TO SITE
GMTSAMIE		SEND TO SITE
GMTSCI		SEND TO SITE
GMTSCM		SEND TO SITE
GMTSDA		SEND TO SITE
GMTSDCB		SEND TO SITE
GMTSDD		SEND TO SITE
GMTSDEM		SEND TO SITE
GMTSDEMB		SEND TO SITE
GMTSDGA		SEND TO SITE
GMTSDGA1		SEND TO SITE
GMTSDGA2		SEND TO SITE
GMTSDGC2		SEND TO SITE
GMTSDGD		SEND TO SITE
GMTSDGH		SEND TO SITE
GMTSDGP		SEND TO SITE
GMTSDVR		SEND TO SITE
GMTSFH		SEND TO SITE
GMTSGAF		SEND TO SITE
GMTSLOAD		SEND TO SITE
GMTSLREM		SEND TO SITE
GMTSLRMX		SEND TO SITE
GMTSMCMA		SEND TO SITE
GMTSMHPE		SEND TO SITE
GMTSPD		SEND TO SITE
GMTSPD2		SEND TO SITE
GMTSPL		SEND TO SITE
GMTSPN		SEND TO SITE
GMTSPN1		SEND TO SITE
GMTSPN2		SEND TO SITE
GMTSPNB		SEND TO SITE
GMTSPXOP		SEND TO SITE
GMTSRAE		SEND TO SITE
GMTSVS		SEND TO SITE
GMTSVSD		SEND TO SITE
GMTSVSS		SEND TO SITE
GMTSXA		SEND TO SITE
GMTSXAB		SEND TO SITE
GMTSXAC		SEND TO SITE
GMTSXAD		SEND TO SITE
GMTSXAL		SEND TO SITE
GMTSXAO		SEND TO SITE
GMTSXAP		SEND TO SITE
GMTSXAP2		SEND TO SITE
GMTSXAR		SEND TO SITE
GMTSXAW		SEND TO SITE
GMTSXAW2		SEND TO SITE
GMTSXAW3		SEND TO SITE

OPTION:

GMTS GUI SITE ADD/EDIT LIST	SEND TO SITE
GMTS GUI SITE COMPILE METHOD	SEND TO SITE
GMTS GUI SITE DEFAULTS	SEND TO SITE
GMTS GUI SITE DISPLAY DEFAULTS	SEND TO SITE
GMTS GUI SITE PRECEDENCE	SEND TO SITE
GMTS GUI SITE RESEQUENCE	SEND TO SITE
GMTS IRM/ADPAC MAINT MENU	USE AS LINK FOR MENU ITEMS

REQUIRED BUILDS:

GMTS*2.7*29	ACTION: Don't install, leave global
GMTS*2.7*44	Don't install, leave global
GMTS*2.7*47	Don't install, leave global

## Print Results of the Installation Process

Use the KIDS Install File Print option if you'd like to print out the results of the installation process.

```
Select Utilities Option:  Install File Print
Select INSTALL NAME: GMTS*2.7*49          Install Completed  2/26/02@09:06:39
=> GMTS*2.7*49 TEST v5
DEVICE: HOME// ;;999  ANYWHERE

PACKAGE: GMTS*2.7*49      Feb 26, 2002 11:09 am                PAGE 1
                                COMPLETED                      ELAPSED
-----
STATUS: Install Completed          DATE LOADED: FEB 25, 2002@12:51:45
INSTALLED BY: MERRILL,DAVID
NATIONAL PACKAGE: HEALTH SUMMARY

INSTALL STARTED: FEB 26, 2002@09:06:33      09:06:39      0:00:06

ROUTINES:                                09:06:34      0:00:01

PRE-INIT CHECK POINTS:
XPD PREINSTALL STARTED                  09:06:35      0:00:01
XPD PREINSTALL COMPLETED                09:06:35

PRINT TEMPLATE                          09:06:35
OPTION                                  09:06:37      0:00:02

POST-INIT CHECK POINTS:
XPD POSTINSTALL STARTED                  09:06:38      0:00:01
XPD POSTINSTALL COMPLETED                09:06:38

INSTALL QUESTION PROMPT                                ANSWER

XP01  Want KIDS to Rebuild Menu Trees Upon Completion of Install  YES
XP11  Want KIDS to INHIBIT LOGONs during the install              NO
XPZ1  Want to DISABLE Scheduled Options, Menu Options, and Protocols NO
MESSAGES:

  Install Started for GMTS*2.7*49 :
        Feb 26, 2002@09:06:33

Build Distribution Date: Jan 14, 2002

  Installing Routines:
        Feb 26, 2002@09:06:34

Running Pre-Install Routine: PRE^GMTSP49

Installing PACKAGE COMPONENTS:

Installing PRINT TEMPLATE

Installing OPTION
        Feb 26, 2002@09:06:37
```

```
Running Post-Install Routine: POST^GMTSP49
Updating Routine file...
Updating KIDS files...
GMTS*2.7*49 Installed.
          Feb 26, 2002@09:06:39
Not a production UCI
NO Install Message sent
Call MENU rebuild
```

## Other Kernel Print Options

Besides using the Kernel Installation & Distribution (KIDS) options to get lists of routines, files, etc., you can also use other Kernel options to print online technical information.

### Routines

The namespace for the Health Summary package is GMTS. Use the Kernel option, List Routines [XUPRROU], to print a list of any or all of the Health summary routines. This option is found on the Routine Tools [XUPR-ROUTINE-TOOLS] menu on the Programmer Options [XUPROG] menu, which is a sub-menu of the Systems Manager Menu [EVE] option.

#### Example:

```
Select Systems Manager Menu Option: programmer Options

Select Programmer Options Option: routine Tools

Select Routine Tools Option: list Routines
Routine Print
Want to start each routine on a new page: No// <RET>

routine(s) ?    > GMTS*
```

The first line of each routine contains a brief description of the general function of the routine. Use the Kernel option, First Line Routine Print [XU FIRST LINE PRINT], to print a list of just the first line of each Health Summary subset routine.

#### Example:

```
Select Systems Manager Menu Option: programmer Options

Select Programmer Options Option: routine Tools

Select Routine Tools Option: First Line Routine Print
PRINTS FIRST LINES

routine(s) ?    > GMTS*
```



## Globals

The globals used in the Health Summary package are:

^GMT(142,  
^GMT(142.1  
^GMT(142.98,  
^GMT(142.99,

Use the Kernel option, List Global [XUPRGL], to print a list of any of these globals. This option is found on the Programmer Options menu [XUPROG], which is a sub-menu of the Systems Manager Menu [EVE] option.

### Example:

```
Select Systems Manager Menu Option: programmer Options  
  
Select Programmer Options Option: LIST Global  
Global ^GMT*
```

## Inquire To Option File

The Kernel Inquire option [XUINQUIRE] provides the following information about a specified option(s):

- Option name.
- Menu text.
- Option description.
- Type of option.
- Lock (if any).

In addition, all items on the menu are listed for each menu option.

## XINDEX

XINDEX is a routine that produces a report called the VA Cross-Referencer. This report is a technical and cross-reference listing of one routine or a group of routines. XINDEX provides a summary of errors and warnings for routines that do not comply with VA programming standards and conventions, a list of local and global variables and what routines they are referenced in, and a list of internal and external routine calls.

XINDEX is invoked from programmer mode: D ^XINDEX.

When selecting routines, select GMTS\* and exclude the routines GMTSI\* (the inits), GMTSON\* and GMTSO0\* (the onits) .

## Data Dictionaries/ Files

The number-spaces for Health Summary files are 142-. Use the VA FileMan DATA DICTIONARY UTILITIES, option #8 ( DILIST, List File Attributes), to print a list of these files. Depending on the FileMan template used to print the list, this option will print out all or part of the data dictionary for the GMTS files.

### List File Attributes

The FileMan List File Attributes option [DILIST] lets you generate documentation about files and file structure. If you choose the “Standard” format, you can see the following Data Dictionary information for a specified file(s):

- File name and description.
- Identifiers.
- Cross-references.
- Files pointed to by the file specified.
- Files that point to the file specified.
- Input templates.
- Print templates.
- Sort templates.

### Example:

```
>D P^DI
VA FileMan 21.0
Select OPTION: DATA DICTIONARY UTILITIES
Select DATA DICTIONARY UTILITY OPTION: LIST FILE ATTRIBUTES
  START WITH WHAT FILE: 8925
                                     (1 entry)
      GO TO WHAT FILE: 8925// 8926*
Select LISTING FORMAT: STANDARD// [Enter]
DEVICE: PRINTER
```

In addition, the following applicable data is supplied for each field in the file: field name, number, title, global location, description, help prompt, cross-reference(s), input transform, date last edited, and notes.

The “Global Map” format of this option generates an output that lists all cross-references for the file selected, global location of each field in the file, input templates, print templates, and sort templates.

### **?, ??, and ??? Online Help**

- ?** Enter one question mark to see helpful information about the components of the health summary type used in the health summary and the options available.
- ??** Enter two question marks to see a list of available health summary components.
- ???** Enter three question marks for detailed help, if available.



# Glossary

---

<b>Ad Hoc Summary</b>	This is a temporary health summary that allows you to select health summary components, time and occurrence limits, and selection items for a particular patient.
<b>Components</b>	Elements of data from DHCP packages that make up the health summary report (e.g., Demographics).
<b>DHCP</b>	Decentralized Hospital Computer Program—previously the name for the VA program responsible for installing an integrated computer system in all DVA medical facilities. Now known as VISTA.
<b>Default</b>	Prompts that have an answer followed by double slashes (//) are called defaults; this means a response has been pre-selected, based on the most likely response or the previous response to this prompt. For example, the prompt “Time Limit:” may have a default of 1 year for Lab Orders, and would appear as: Time Limit: 1Y//. Defaults save you time by allowing you to just hit return rather than typing an answer.
<b>Device</b>	A printer or a computer terminal screen. See the <i>DHCP Users Guide to Computing</i> for basic DHCP computer skills, including printing information.
<b>Hospital Location Displayed</b>	For some PCE components, when this flag is enabled, the Hospital Location abbreviation will be displayed.
<b>ICD Text Displayed</b>	For some components, Diagnosis Text can be customized (e. g., long form, short form, code only, or no form of ICD Diagnosis).
<b>IB Encounter Form Utilities</b>	The Integrated Billing Package (Encounter Form Utilities) includes a Print Manager that allows sites to define reports that should print along with the encounter forms for a specific clinic or division and for

specified appointments. One of the options, “Define Available Health Summary,” allows a Health Summary to be made available for use by the print manager. See the *IB Encounter Form Utilities User Manual* for further information.

<b>Lock</b>	Restricts edit access for a given health summary type to the holders of any valid security key. For example, the GMTSMGR key is required to edit summary types that are locked by the GMTSMGR lock.
<b>Non-destructive</b>	Health Summary components are non-destructive, meaning that the Health Summary package does not edit the data from the DHCP package where it extracts its information.
<b>Occurrence Limits</b>	The number of past occurrences that will be reported on a health summary (e.g., the last five occurrences).
<b>Owner</b>	The creator of a health summary type. Owners and holders of the GMTSMGR security key have sole access to modify their health summary type(s).
<b>Provider Narrative Displayed</b>	For some components, when this flag is enabled and a provider enters narrative text, the text will be displayed.
<b>Summary Order</b>	The order in which components appear in a health summary, as defined by the creator of a Summary Type.
<b>Summary Type</b>	The structure or template containing defined components and the unique characteristics with occurrence and time limits, and selection items. Used to print health summaries for patients.
<b>Time Limits</b>	The time period of reference included on a health summary for a particular component (e.g., 2D, 1M, 1Y for two days, one month and one year).
<b>VISTA</b>	The name for the VHA program responsible for installing an integrated computer system in all VHA medical facilities.

## Appendix A—Defining New Components

---

We encourage sites to submit E3Rs for new components (or enhancements to existing components) that they believe will be useful on a national basis. The Health Summary Expert Panel (EP) will evaluate these requests. If the EP approves the request, these new components will be provided as patches or in a future version of the Health Summary package, depending on the priority that is given to the request.

Sites have the option to create new components for Health Summary to provide for their site-specific needs. This may be an enhancement to one of the components that Health Summary provides, it can be a totally new one that accesses DHCP data that Health Summary currently doesn't provide a component for, or it can be one to access non-DHCP supported (Class III software) packages.

**NOTE:** Please be aware that locally created components are not supported by National VISTA Service (NVS) or Systems Design and Development (SD&D).

A Health Summary basket has been set up on SHOP,ALL where sites can put their locally developed component routines, in order to share this information with the rest of the DHCP community. We encourage you to take a look at what has already been done, as this may save you some time.

*To access SHOP,ALL from FORUM:*

1. Enter SHOP,ALL at your menu prompt and you'll be "logged" on to SHOP,ALL
2. Enter SURROGATE NAME: **SHOP,ALL**
3. Select Mailman Option: **Read Mail**
4. Enter the Health Summary mail basket.

We would also like you to add any components you have created locally to SHOP,ALL .

## **Format for Adding Components to SHOP,ALL**

If you have components you would like to share, please use the following instructions/format:

1. Start the subject of the message with:

HS Vx.x -- brief subject/component name, where x.x will be the version

2. Include a description, sample of the report, and the routines to produce the report. The routine should be under the name-space assigned to your station; e.g., Madison=ALW, Cincinnati=AFR. Send to: SHOP,ALL@ISC-CHICAGO.VA.GOV

3. The message will go to the IN Basket at SHOP,ALL. The SHOP,ALL administrators will read the IN basket daily and save the message to a basket called Health Summary.

## **Hints for Developing local site components:**

Before writing your own components, review some of the existing routines that have been written. Some good examples are the Patient Care Encounter, the Discharge Summary, or the Compensation and Pension components with the display routines in the Health Summary name space and the extract routines in the custodial package's name-space. We suggest that when creating new components you write two separate routines, one to extract the data and one to display the data. The display routine will call the extract routine and then display the data that was extracted.

Put any local routines you develop in your site's routine name-space.

Local site components will be entered into the Health Summary Component (File #142.1) file with an internal file number beginning with your site number plus an additional 3 digits (e.g. At Salt Lake VAMC the first number would be 660001). This is to assure that nationally developed components are not overlaid by local site-developed components or vice versa. You will be prompted with a valid number when you enter a new component via the

Create/Modify Health Summary Components option on the Health Summary Maintenance Menu.

For the extract routine, we recommend that you set the data to the ^TMP("name",\$J) global. The display routine will get the data from this global and display/print it. For the extract routine, you call it with the DFN (Patient Internal File Number) variable.

Optionally, you could set it up for time and occurrence limits. GMTSEND (Fileman date to be used as the ending date for displaying data, GMTSBEG (Fileman date to be



used as the beginning date for displaying data, and GMTSNDM (Maximum number of occurrences to display) are the variables to use to allow for time and occurrence limits. In your extract routine, make sure the date of the data is between the dates in the GMTSBEG and GMTSEND variables. Use the GMTSNDM variable to make sure you only get the maximum number of records that were entered for the occurrence limits.

Depending on how the cross-references are set up in the file you are extracting data from, you may want to use the reverse \$ORDER M command or a cross-reference with an inverted Fileman date to get the most recent data first. When putting the data into the ^TMP global, you can invert the date (9999999-Date) as one of the subscripts. Or you can just include the date. When displaying the data, you will need to use the Reverse \$ORDER M command to get the most recent data to display first, if you don't use an inverted date subscript.

**NOTE:** Inverted Fileman dates mean that the date (e.g. 2950630) will be subtracted from 9999999. This would give you 7049369. Inverted Fileman dates are used to order the data from most recent data to oldest data. With the Reverse \$ORDER command, this convention won't necessarily need to be followed in the future. Prior to the Reverse \$ORDER M command, it was necessary to put the retrieved data in the ^TMP array with a subscript in Inverted Fileman Date/time in order that the user would see the most current data first in the Health Summary display.

Once you have extracted the data, you can print or display it. To allow for page breaks (and in the interactive display the capability to terminate or jump to another component), it is important that you issue the following commands before printing a line of data:

```
D CKP^GMTSUP Q:$D(GMTSQIT)
```

If this isn't done before each line is written, the length of the document may exceed the length of the page or screen. You also will not get the component header to display before displaying the data. It is important that no lines are written and the above commands are not issued if there is no data. For version 2.7 of Health Summary we implemented the capability to suppress component headers and "No Data Available" messages for Health Summary Types. In order to make this work, the CKP^GMTSUP routine was updated to set a flag that data was printed for a component. After the Health Summary driver processes each component for a Health Summary Type, the system checks to see if data was displayed for the component. If no data was displayed, the driver determines whether or not to display the component header and "No Data Available" messages.

**NOTE:** For any local site components that were written prior to version 2.7, if you want to be able to suppress component headers and "No Data Available" messages, you will need to evaluate them and remove calls to BREAK^GMTSUP. This command should not be executed within your routines and you should not display the message that there was

no data available. You also want to be sure not to execute CKP^GMTSUP until you have data to display.

***Setting up a component to allow selection of specific items:***

If you want to set up a component to allow selection of specific items, review one of the existing components that allows this capability, then follow these steps:

1. Add "GMTS" to the Application Group field for the file you want to select items from. You can do this through Fileman with the Edit File option under the Utility Functions option.
2. Add the pointed to file to the variable pointer Selection Item (field #4) sub-field in the multiple Structure (Field #1) field in the Health Summary Type (file #142) file. Do this through Fileman with the Modify File Attributes option.
3. When entering a new component to the Health Summary Component (file #142.1), be sure to enter the File to the Selection Item field. This can be done through the Create/Modify Health Summary Components option on the Health Summary Maintenance Menu.
4. In your application code, access the GMTSEG variable to determine the Selection Items for the file. The format of this array is GMTSEG(GMTSEGN,file number,Selection Item internal file number). GMTSEGN is the internal file number for the component. You can \$ORDER on the third subscript of the array and get the Selection Item's internal file number. In your extract routine you will then limit the extract to only retrieve records for the specified Selection Items.

**NOTE:** Typically, users at sites should not modify files. However, in order to include new components with selection items, it is necessary to modify a file's structure. Therefore, we recommend extreme caution while following the procedures above.

## Create/Modify Health Summary Components

The following sample dialogue can assist you in creating your own local health summary components.

**NOTE:** When selecting components from the Ad Hoc Health Summary menu, entering “ALL” allows all components to be selected. If the first three characters of a HEADER NAME for a component are designated as “All,” however, then only the defined component will be selected. Avoid conflicts and loss of functionality by not using “all” at the front of new header names.

```
Select Health Summary Maintenance Menu Option: 2 Create/Modify Health
Summary Components

Select COMPONENT: CHEM 7
  Are you adding 'CHEM 7' as a new HEALTH SUMMARY COMPONENT? Y  (Yes)
    HEALTH SUMMARY COMPONENT NUMBER: 5000001//
Do you wish to duplicate an existing COMPONENT? YES//

CD      Advance Directive      EM      Electron Microscopy EXAM  Exams Latest
BADR    Brief Adv React/All    MIC      Microbiology          HF      Health Factors
ADR      Adv React/Allerg      BMIC     Brief Microbiology    SHF     Health Factor Select
CMB      Reminder Brief        LO       Lab Orders            IM       Immunizations
CR       Reminders Due         BLO      Brief Lab Orders      OD       Outpatient Diagnosis
CM       Reminder MaintenanceSP Surgical Pathology    OE       Outpatient Encounter
CRS      Reminders Summary     SLT      Lab Tests Selected    ST       Skin Tests
CW       Clinical Warnings     MAGI     MAG Imaging           RXIV     IV Pharmacy
CP       Comp. & Pen. Exams    ADC      Admission/Discharge  RXOP     Outpatient Pharmacy
CNB      Brief Consults        EADT     ADT History ExpandedRXUD  Unit Dose Pharmacy
CN       Crisis Notes          CVF      Fut Clinic Visits     PLA      Active Problems
DI       Dietetics             CVP      Past Clinic Visits    PLL      All Problems
DCS      Discharge Summary     DEM      Demographics          PLI      Inactive Problems
BDS      Brief Disch Summary   BDEM     Brief Demographics    PN       Progress Notes
ENV      Full Environment      DS       Disabilities          BPN      Brief Progress Notes
FR       Fred                  DD       Discharge Diagnosis   SPN      Selected Prog Notes
GAF      Global Assess Funct   DC       Discharges            SW       Social Work
HS       HS Environment        PRC      ICD Procedures        SCD      Spinal Cord Dysfunct
II       Imaging Impression    OPC      ICD Surgeries         NSR      NON OR Procedures
SII      Sel Image ImpressionTR Transfers          SRO      Surgery Only Reports
IP       Imaging Profile       TS       Treating Specialty     SR       Surgery Rpt (OR/NON)
IS       Imaging Status        MEDA     Med Abnormal          BSR      Brief Surgery Rpts
BA       Blood Availability    MEDB     Med Brief Report      SNSR     Selected NON OR Proc
BT       Blood Transfusions    MEDC     Med Full Captioned    URIN     URINALYSIS
CH       Chem & Hematology     MEDF     Med Full Report       VS       Vital Signs
SCLU     Lab Cum Selected      MEDS     Med (1 line) SummaryVSD  Detailed Vitals
SCL1     Lab Cum Selected 1    MHPE     MH Physical Exam      VSO      Vital Signs Outpat.
SCL2     Lab Cum Selected 2    ONC      Oncology              SVS      Vital Signs Selected
SCL3     Lab Cum Selected 3    ORC      Current Orders        SVSO     Vital Select Outpat.
SCL4     Lab Cum Selected 4    ED       Education
CY       Cytopathology         EDL      Education Latest

Enter COMPONENT to Duplicate: SCLU  Lab Cum Selected
NAME: CHEM 7// <RET>
ABBREVIATION: CH7
DESCRIPTION: . . .
1>This component contains information extracted from the Lab package. Not
```

```

2>only do time and maximum occurrence limits apply to this component, but
3>the user is allowed to select any number of atomic Lab tests. Data
4>presented include: collection date/time, specimen, test names with
5>results and reference flags in columnar (horizontal) format. Comments will
6>also be conditionally displayed, depending on the value of the DISPLAY
7>COMMENTS ON LABS Health Summary Site Parameter. When comments are
8>displayed, a lower case letter will be displayed to the left of the date
9>for entries with comments. Comments will be displayed after all the
10>results are displayed with comments being linked by the lower case letter.
11>Up to 26 comments can be included.
EDIT Option: <RET>
PRINT ROUTINE: MAIN;GMTSLRSC// ??
    This is the entry point and routine to be called when the component is
    run for a given health summary type. Enter the line label, followed by
    a semi-colon, followed by the routine name (e.g., MAIN;GMTSLRSC).
PRINT ROUTINE: MAIN;GMTSLRSC// <RET>
TIME LIMITS APPLICABLE: yes// ??
    This field is set up by the programmer to indicate whether the routine to
    print this component will allow a time range to be applied to the data
    to be displayed in the Health Summary.
    Choose from:
        Y          yes
TIME LIMITS APPLICABLE: yes// <RET>
MAXIMUM OCCURRENCES APPLICABLE: yes// ??
    This field is used by the programmer to indicate whether the routine
    which prints this component is set up to handle maximum occurrence limits
    on the Health Summary.
    Choose from:
        Y          yes
MAXIMUM OCCURRENCES APPLICABLE: yes// <RET>
HOSPITAL LOCATION APPLICABLE: ??
    This field is used by the programmer to indicate whether the routine
    which prints this component is set up to handle the display of the
    hospital location abbreviation on the Health Summary.
    Choose from:
        Y          yes
HOSPITAL LOCATION APPLICABLE: <RET>
ICD TEXT APPLICABLE: ??
    This field is used by the programmer to indicate whether the routine
    which prints this component is set up to handle the display of
    standardized ICD text on the Health Summary.
    Choose from:
        Y          yes
ICD TEXT APPLICABLE:<RET>
PROVIDER NARRATIVE APPLICABLE: ??
    This field is used by the programmer to indicate whether the routine
    which prints this component is set up to handle the display of the
    provider narrative on the Health Summary.
    Choose from:
        Y          yes
PROVIDER NARRATIVE APPLICABLE: <RET>
LOCK: ??
    To be used for components such as psychology test results
    Restricts viewing access under Print Health Summary Menu
LOCK: <RET>
DEFAULT HEADER NAME: ??

```

The DEFAULT HEADER NAME will appear in menus and component headers in preference to the COMPONENT NAME, but NOT in preference to the local HEADER NAME, if it is defined for that component within a given Health Summary Type. If defined the local HEADER NAME will have precedence within a given Health Summary Type.

DEFAULT HEADER NAME: **Chem 7**

Select SELECTION FILE: ??

Choose from:

LABORATORY TEST

Enter the names or numbers of the files from which selection items (e.g., lab tests (file 60), radiology procedures (file 71), or vital signs (file 120.51)) may be chosen for this component.

```

Choose from:
    60             LABORATORY TEST
    71             RADIOLOGY PROCEDURES
    120.51         VITAL TYPE
    811.9          PCE REMINDER/MAINTENANCE ITEM
    9001017        HEALTH SUMMARY MEAS PANEL
    9999999.64     HEALTH FACTORS

Select SELECTION FILE: 60 LABORATORY TEST
    ...OK? Yes// <RET> (Yes)

SELECTION FILE: LABORATORY TEST// <RET>
SELECTION COUNT LIMIT: ??
    Enter the MAXIMUM number of selection items which may be selected for
    any single appearance of this component in a given health summary type.
    That is, a value of 7 will allow the user to select as many as seven
    items, etc.
SELECTION COUNT LIMIT: 7
Select SELECTION FILE: <RET>

ADD new Component to the AD HOC Health Summary? NO// y YES

>>> EDITING the GMTS HS ADHOC OPTION Health Summary Type
SUPPRESS PRINT OF COMPONENTS WITHOUT DATA: ??
    This field allows health summary types to be set up to suppress printing
    of components that contain no data when health summaries are printed from
    a device. When health summary types are displayed on the screen,
    components that contain no data will still be displayed with a "No data
    available" message. This is done to eliminate any confusion that may
    occur when jumping between components.
    Choose from:
        Y          yes
        N          no
SUPPRESS PRINT OF COMPONENTS WITHOUT DATA: y yes

Do you wish to review the Summary Type structure before continuing? NO// <RET>
Select COMPONENT: CHEM 7// <RET> CH7
SUMMARY ORDER: 395// 395
OCCURRENCE LIMIT: 5
TIME LIMIT: 21d
HOSPITAL LOCATION DISPLAYED: y yes
ICD TEXT DISPLAYED: ??
    Indicate whether the long form, short form, code only, text only, or no
    form of ICD diagnosis text should appear in applicable components.
    Choose from:
        L          long text
        S          short text
        C          code only
        T          text only
        N          none
ICD TEXT DISPLAYED: c code only
PROVIDER NARRATIVE DISPLAYED: y yes
HEADER NAME: Chem 7// <RET>

No selection items chosen.

```

```
Select COMPONENT: <RET>
```

MAXIMUM OCCURRENCES APPLICABLE: **y** yes

```

HOSPITAL LOCATION APPLICABLE: <RET>
ICD TEXT APPLICABLE:<RET>
PROVIDER NARRATIVE APPLICABLE: <RET>
LOCK: <RET>
DEFAULT HEADER NAME: Nuclear Medicine
Select SELECTION FILE: <RET>

ADD new Component to the AD HOC Health Summary? NO// y YES

>>> EDITING the GMTS HS ADHOC OPTION Health Summary Type
SUPPRESS PRINT OF COMPONENTS WITHOUT DATA: yes// <RET>

Do you wish to review the Summary Type structure before continuing? NO//<RET>
Select COMPONENT: NUCLEAR MEDICINE// <RET> NUC
SUMMARY ORDER: 400// 400
OCCURRENCE LIMIT: 5
TIME LIMIT: 21d
HOSPITAL LOCATION DISPLAYED: y yes
ICD TEXT DISPLAYED: ??
    Indicate whether the long form, short form, code only, text only, or no
    form of ICD diagnosis text should appear in applicable components.
    Choose from:
        L      long text
        S      short text
        C      code only
        T      text only
        N      none
ICD TEXT DISPLAYED: c code only
PROVIDER NARRATIVE DISPLAYED: y yes
HEADER NAME: Nuclear Medicine// <RET>
Please hold on while I resequence the summary order.....
.....

>>> Returning to Create/Modify Health Summary Component Option.
Select COMPONENT: <RET>

```





## Appendix B<sup>3</sup>/<sub>4</sub> Health Summary Security

---

Health summaries produced by this package are highly confidential and should be treated with the same security precautions as a patient's medical record.

### Menu Access

The Health Summary Overall Menu [GMTS MANAGER] contains four menus:

1. GMTS USER
2. GMTS ENHANCED USER
3. GMTS COORDINATOR
4. GMTS IRM/ADPAC MAINT MENU

Assign these menus as follows. (See the *Health Summary User Manual* for complete user descriptions of menus and options):

1. Give the Health Summary Menu [GMTS USER] menu to users who only need to print or display health summaries.
2. Give the Health Summary Enhanced Menu [GMTS ENHANCED USER] menu to users who need to create, modify, or delete their *own* health summary types, in addition to printing health summaries.
3. Give the Health Summary Coordinator's Menu [GMTS COORDINATOR] menu to users who need to print or display health summaries, and who will also need to create, modify, or delete health summary types, and set up nightly batch printing at specified locations.
4. Give the Health Summary Maintenance Menu [GMTS IRM/ADPAC MAINT MENU] to IRM staff or the Clinical Coordinator for any implementation and maintenance issues in Health Summary. This menu contains options to disable/enable health summary components for selection/display, create/modify new health summary components, edit and rebuild the Ad Hoc Health Summary Type, resequence the components in a health summary type, create/modify a health summary type, delete a health summary type, and edit health summary site parameters.

## Security

Security is established via a combination of the GMTSMGR and GMTS VIEW ONLY security keys and the OWNER and LOCK fields in File 142 (Health Summary Type file).

### GMTSMGR Security Key:

The GMTSMGR security key allows holders to override the LOCK and OWNER access restrictions for editing health summary types. The IRM Chief and Health Summary Coordinators are likely holders of this key.

This security key allows the holder to edit general usage health summary types which are locked with the GMTSMGR key. It also provides master edit access to all other health summary types.

### GMTS VIEW ONLY Security Key:

The GMTS VIEW ONLY key allows holders to view a health summary on the CRT. Holders may use all of the familiar Health Summary options but will not be prompted for a device for printing paper copies of the health summary.

## Health Summary Type File

### **Owner**

Owners of health summary types have edit access to health summary types they have created. The owner is designated when a health summary type is created. Usually the creator of a health summary type is automatically designated as its owner. However, if creators of health summary types hold the GMTSMGR key, they may designate another person as the owner. If you are assigned the GMTSMGR key, you are *not* automatically designated as the owner. You may, however, enter your name as the "owner."

### **Lock**

This field can be used to specify a security key and is designated when the health summary type is created. This lock gives edit access for that health summary type to anyone who holds the matching security key. For example, someone creating a Pathology Health Summary Type may want to enter LRSUPER as the lock, thereby giving edit access to any holder of the LRSUPER security key. The four health summary types exported with the Health Summary package have the GMTSMGR lock.

A lock does not restrict an owner—the lock gives permission. If a health summary type is locked, the owner of the health summary type is not required to have the key to access it; however, all other users must have the key.

## Health Summary Component File

### Lock

You may restrict any component from view by entering the name of a valid security key in the LOCK field for a given component. For example, if your site decides that only holders of the LRSPUSER key should be allowed to view the Surgical Pathology Health Summary component, then entering the name of that security key in the LOCK field of that component's record will enforce that policy.

## VA FileMan File Protection

The Health Summary package files are exported with the following file protection provided by VA FileMan:

File Number	Name	DD	RD	WR	DEL	LAYGO	AUDIT
File 142	Health Summary Type	@				@	@
File 142.1	Health Summary Components	@		@	@	@	@
File 142.98	Health Summary User Preferences	@	@	@	@	@	@
File 142.99	Health Summary Parameters	@	@	@	@	@	@



# Index

---

## —A—

Ad Hoc Health Summaries, 14  
**Ad Hoc Summary**, 45  
*Ad Hoc Summary Driver*, 31  
ancillary packages, 1  
Appendix A—Defining New Components, 47  
Appendix D—Health Summary Security, 57

## —B—

batch processing, 15

## —C—

Callable Routines, 30  
**Components**, 45  
Components and Types, 1  
**Create/Modify Health**, 10  
**Create/Modify Health Summary Components**, 51  
**Create/Modify Health Summary Type**, 11  
customized, 15  
Customized Health Summary Types, 15  
Customizing the AD HOC Health Summary Type,  
16

## —D—

**Data Dictionaries**, 42  
Database Integration Agreements, 34  
**Default**, 45  
default parameters, 10  
Defining New Components, 47  
*Definitions*, 1  
**Disable/Enable Health Summary**  
**Component**, 10  
DISABLED components, 10

## —E—

E3Rs, 47  
Edit Ad Hoc Health Summary Type, 16  
**Edit Health Summary Site Parameters**,  
11  
Encounter Form Utilities, 14  
enhanced patient look-up, 14  
External Relations, 34

## —F—

Files and Globals List, 21

**Function**, 26

## —G—

Generating Online Documentation, 37  
Globals, 21  
Glossary, 45  
**GMTS**, 30  
GMTS COMPONENT NAME, 26  
GMTS TASK STARTUP, 15  
GMTS TYPE DELETE, 28  
**GMTSADOR**, 31  
**GMTSDVR**, 31, 32  
GMTSMGR security key, 11  
**GMTSU**, 32, 33  
**GMTSUP**, 33

## —H—

Headers and Abbreviations, 15  
*Health Summary Alternate Drive*, 31, 32  
Health Summary files, 21  
Health Summary Maintenance Menu, 10  
Health Summary Security, 57  
Health Summary Type file, 1  
**Hospital Location**, 45

## —I—

**ICD Text Displayed**, 45  
INCLUDE BAR CODE ON ACT PROFILES, 11  
INCLUDE COMMENTS ON LABS, 11  
Information Menu option, 15  
Integrated Billing Package, 14

## —L—

**Lock**, 46, 58  
Locks and Security, 58

## —M—

Maintenance Menu, 10  
modify an existing health summary type, 11

## —N—

**Namespace**, 19  
Nightly Batch Processing, 15  
**Non-destructive**, 46  
Non-destructive, read-only component routines,  
34

—O—

occurrence limits, 15  
**Occurrence Limits**, 46  
OE/RR Interface, 14  
OUT OF ORDER MESSAGE, 10  
**Owner**, 46

—P—

Packages Providing Data, 1  
*Pagination Utilities*, 33  
PDX Transmission of Health Summaries, 2  
permanent health summaries, 2  
Print Manager, 14  
**Printing Data Dictionaries**, 42  
Printing Health Summaries, 2  
PROMPT FOR ACTION PROFILE, 11  
**Provider Narrative**, 46  
Purging and Archiving, 28

—Q—

queuing, 14

—R—

**Rebuild Ad Hoc Health Summary Type**,  
10  
Request for Health Summary Type, 15  
**Resequence a Health Summary Type**, 10  
Routine Descriptions, 19  
Routines, 40

—S—

Schedule/Unschedule Options, 15  
Security, 57  
*SHOP,ALL*, 47  
SPOOL DEVICE, 11  
storage, 28  
**Summary Order**, 46  
**Summary Type**, 46

—T—

TASK STARTUP, 15  
Time and Occurrence limits, 10  
time limits, 15  
Time Limits, 46